



```
CCCCCCCC 000000 BBBB BBBB SSSSSSSS WW WW IIIIII TTTT TTTT CCCCCC HH HH
CCCCCCCC 000000 BBBB BBBB SSSSSSSS WW WW IIIIII TTTT TTTT CCCCCC HH HH
CC CC 00 00 BB BB SS SS WW WW II II TTTT TTTT CC CC HH HH
CC CC 00 00 BB BB SS SS WW WW II II TTTT TTTT CC CC HH HH
CC CC 00 00 BB BB SS SS WW WW II II TTTT TTTT CC CC HH HH
CC CC 00 00 BBBB BB SS SS WW WW II II TTTT TTTT CC CC HH HH
CC CC 00 00 BBBB BB SS SS WW WW II II TTTT TTTT CC CC HH HH
CC CC 00 00 BB BB SS SS WW WW II II TTTT TTTT CC CC HH HH
CC CC 00 00 BB BB SS SS WWW WW II II TTTT TTTT CC CC HH HH
CCCCCCCC 000000 BBBB BBBB SSSSSSSS WW WW IIIIII TTTT TTTT CCCCCC HH HH
CCCCCCCC 000000 BBBB BBBB SSSSSSSS WW WW IIIIII TTTT TTTT CCCCCC HH HH

LLLL IIIIII SSSSSSSS
LLLL IIIIII SSSSSSSS
LLLL II SS
LLLL II SS
LLLL II SS
LLLL II SS
LLLL II SSSSSS
LLLL II SSSSSS
LLLL II SS
LLLL II SS
LLLL II SS
LLLL II SS
LLLL IIIIII SSSSSSSS
LLLL IIIIII SSSSSSSS
```

```
0001 0 MODULE COB$SWITCH(
0002 0 IDENT = '1-006' ! file: COB$SWITCH.B32 EDIT:LGB1006
0003 0 ) =
0004 1 BEGIN
0005 1
0006 1
0007 1 *****
0008 1 *
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0026 1 *
0027 1 *****
0028 1
0029 1
0030 1 ++
0031 1 FACILITY: COBOL SUPPORT
0032 1
0033 1 ABSTRACT
0034 1
0035 1 Reads switches
0036 1
0037 1
0038 1 ENVIRONMENT: Vax-11 User Mode
0039 1
0040 1 AUTHOR: MLJ , CREATION DATE: 16-JAN-79
0041 1
0042 1 MODIFIED BY:
0043 1
0044 1 1-001 - Original. MLJ 16-JAN-79
0045 1 1-002 - Added boilerplate and comments. RKR 23-AUG-1979
0046 1 1-003 - Change symbolic name of LIBRARY file. RKR 1-OCT-79
0047 1 1-004 - Cosmetic changes. RKR 18-OCT-79
0048 1 1-005 - Fix typo from 4. RKR 20-OCT-79
0049 1 1-006 - Use logical LNM$C_NAMLENGTH instead of hard-coded value of 64.
0050 1 LGB 31-OCT-1983
0051 1 --
0052 1
0053 1 !<BLF/PAGE>
```



```
.. 55 0054 1 |  
.. 56 0055 1 | SWITCHES  
.. 57 0056 1 |  
.. 58 0057 1 |  
.. 59 0058 1 SWITCHES ADDRESSING_MODE (EXTERNAL = GENERAL, NONEXTERNAL = WORD_RELATIVE);  
.. 60 0059 1 |  
.. 61 0060 1 |  
.. 62 0061 1 | LINKAGES  
.. 63 0062 1 |  
.. 64 0063 1 LINKAGE  
.. 65 0064 1 L = JSB : GLOBAL(PTR=2, CNT=3, DIG=4);  
.. 66 0065 1 |  
.. 67 0066 1 | TABLE OF CONTENTS:  
.. 68 0067 1 |  
.. 69 0068 1 FORWARD ROUTINE  
.. 70 0069 1 |  
.. 71 0070 1 GET_DIGIT : L ;  
.. 72 0071 1 |  
.. 73 0072 1 | INCLUDE FILES  
.. 74 0073 1 |  
.. 75 0074 1 REQUIRE 'RTLIN:RTLPSECT' ; ! Macros to declare psects  
.. 76 0169 1 LIBRARY 'RTLSTARLE';  
.. 77 0170 1 |  
.. 78 0171 1 |  
.. 79 0172 1 | MACROS  
.. 80 0173 1 |  
.. 81 0174 1 NONE  
.. 82 0175 1 |  
.. 83 0176 1 EQUATED SYMBOLS  
.. 84 0177 1 |  
.. 85 0178 1 NONE  
.. 86 0179 1 |  
.. 87 0180 1 PSECT DECLARATIONS:  
.. 88 0181 1 |  
.. 89 0182 1 |  
.. 90 0183 1 DECLARE_PSECTS (COB) ; ! Declare psects for COB$ facility  
.. 91 0184 1 |
```

```
.. 93      0185 1 GLOBAL ROUTINE COB$SWITCH(NUMBER)=
.. 94      0186 1
.. 95      0187 1 ++      FUNCTIONAL DESCRIPTION
.. 96      0188 1
.. 97      0189 1
.. 98      0190 1 See C79RTLREQ for specification
.. 99      0191 1
100      0192 1
101      0193 1 FORMAL PARAMETERS:
102      0194 1
103      0195 1     NUMBER
104      0196 1
105      0197 1 IMPLICIT INPUTS:
106      0198 1
107      0199 1     Logical name table
108      0200 1
109      0201 1 IMPLICIT OUTPUTS:
110      0202 1
111      0203 1     NONE
112      0204 1
113      0205 1 ROUTINE VALUE:
114      0206 1     1      Success
115      0207 1     0      Failure
116      0208 1
117      0209 1 COMPLETION CODES:
118      0210 1
119      0211 1     NONE
120      0212 1
121      0213 1 SIDE EFFECTS:
122      0214 1
123      0215 1     NONE
124      0216 1
125      0217 1 --
126      0218 1
127      0219 1 BEGIN
128      0220 1 LOCAL
129      0221 1     BUFFER:      VECTOR[LNMSC_NAMLENGTH, BYTE], ! Returned equivalence string
130      0222 1     BUFDESC:    VECTOR[2],      ! Descriptor for BUFFER
131      0223 1     NAMDESC:    VECTOR[2],      ! Descriptor for logical name
132      0224 1     LENGTH:     WORD;           ! Length of equivalence string
133      0225 1 GLOBAL REGISTER
134      0226 1     PTR=2, CNT=3, DIG=4;
135      0227 1
136      0228 1
137      0229 1     BUFDESC[0] = LNMSC_NAMLENGTH;      ! Set up descriptors
138      0230 1     BUFDESC[1] = BUFFER;                !
139      0231 1     NAMDESC[0] = 12;                  !
140      0232 1     NAMDESC[1] = UPLIT('COB$SWITCHES'); !
141      0233 1
142      0234 1
143      0235 1 IF NOT $TRNLOG(      ! Translate COB$SWITCHES
144      0236 1     LOGNAM=NAMDESC, RSLLEN=LENGTH, RSLBUF=BUFDESC)
145      0237 1 THEN
146      0238 1     RETURN 0;
147      0239 1
148      0240 1
149      0241 1     PTR = BUFFER;                ! Set up global registers
```

111

[illegible]



COBSSWITCH  
1-006

H 5  
16-Sep-1984 00:15:51  
14-Sep-1984 12:10:59

VAX-11 Bliss-32 V4.0-742  
[COBRTL.SRC]COBSSWITCH.B32;1

Page 5  
(3)

	55	54 D0 00042	MOVL	DIG, VAL		0254
		53 D5 00045	TSTL	CNT		0258
		10 15 00047	BLEQ	3\$		
		0000V 30 00049	BSBW	GET_DIGIT		
	0A	50 E9 0004C	BLBC	RO, 3\$		
50	55	0A C5 0004F	MULL3	#10, VAL, RO		
55	50	54 C1 00053	ADDL3	DIG, RO, VAL		
		EC 11 00057	BRB	2\$		
	04 AC	55 D1 00059	CMPL	VAL, NUMBER		0262
		D9 12 0005D	BNEQ	1\$		
	50	01 D0 0005F	MOVL	#1, RO		
			RET			
		50 D4 00063	CLRL	RO		0267
		04 00065	RET			

; Routine Size: 102 bytes, Routine Base: \_COBSCODE + 000C

: 176 0268 1  
: 177 0269 1 !<BLF/PAGE>

```
179 0270 1 ROUTINE GET_DIGIT: L=
180 0271 1
181 0272 1 ++ FUNCTIONAL DESCRIPTION
182 0273 1
183 0274 1
184 0275 1 Get next character from string, returning:
185 0276 1 PTR advanced to next character
186 0277 1 CNT decremented
187 0278 1 DIG containing the character less %C'0'
188 0279 1 Value true if and only if the character was a digit
189 0280 1
190 0281 1
191 0282 1 FORMAL PARAMETERS:
192 0283 1
193 0284 1
194 0285 1 IMPLICIT INPUTS:
195 0286 1
196 0287 1 NONE
197 0288 1
198 0289 1 IMPLICIT OUTPUTS:
199 0290 1
200 0291 1 NONE
201 0292 1
202 0293 1 ROUTINE VALUE:
203 0294 1 COMPLETION CODES:
204 0295 1
205 0296 1 NONE
206 0297 1
207 0298 1 SIDE EFFECTS:
208 0299 1
209 0300 1 NONE
210 0301 1
211 0302 1 --
212 0303 1
213 0304 1 BEGIN
214 0305 1 EXTERNAL REGISTER
215 0306 1 PTR, CNT, DIG;
216 0307 1 LOCAL
217 0308 1 VAL;
218 0309 1
219 0310 1 VAL = 0;
220 0311 1 DIG = .(.PTR)<0,8>;
221 0312 1 PTR = .PTR + 1;
222 0313 1 CNT = .CNT - 1;
223 0314 1 DIG = .DIG - %C'0';
224 0315 1 IF .DIG LEQU 9 THEN VAL = .VAL + 1;
225 0316 1 .VAL
226 0317 1 END;
```

```
! Assume false value
! Fetch character
! Advance pointer
! Decrement count
! Bias character
! Set true value if need be
! Return the value
```

```
50 D4 0000 GET_DIGIT:
54 82 9A 00002 CLRL VAL
53 D7 00005 MOVZBL (PTR)+, DIG
DECL CNT
```

```
: 0310
: 0311
: 0313
```



COB\$SWITCH  
1-006

J 5  
16-Sep-1984 00:15:51  
14-Sep-1984 12:10:59

VAX-11 BLISS-32 V4.0-742  
[COBRTL.SRC]COB\$SWITCH.B32;1

Page 7  
(4)

54  
09

30 C2 00007  
54 D1 0000A  
02 1A 0000D  
50 D6 0000F  
05 00011 1\$:

SUBL2 #48, DIG  
CMPL DIG, #9  
BGTRU 1\$  
INCL VAL  
RSB

: 0314  
: 0315  
: 0317

; Routine Size: 18 bytes, Routine Base: \_COB\$CODE + 0072

; 227 0318 0 END ELUDOM

# PSECT SUMMARY

Name	Bytes	Attributes
_COB\$CODE	132	NOVEC, NOWRT, RD, EXE, SHR, LCL, REL, CON, PIC, ALIGN(2)

# Library Statistics

File	----- Total	Symbols Loaded	----- Percent	Pages Mapped	Processing Time
_\$255\$DUA28:[SYSLIB]STARLET.L32;1	9776	4	0	581	00:00.7

# COMMAND QUALIFIERS

; BLISS/CHECK=(FIELD, INITIAL, OPTIMIZE)/NOTRACE/LIS=LIS\$:COB\$SWITCH/OBJ=OBJ\$:COB\$SWITCH MSRC\$:COB\$SWITCH/UPDATE=(ENH\$:COB\$SWITCH  
; )

; Size: 120 code + 12 data bytes  
; Run Time: 00:03.5  
; Elapsed Time: 00:15.8  
; Lines/CPU Min: 5451  
; Lexemes/CPU-Min: 20811  
; Memory Used: 62 pages  
; Compilation Complete



0064 AH-BT13A-SE  
VAX/VMS V4.0

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